IMAGE PROCESSING

```
from keras.preprocessing.image import ImageDataGenerator
```

In [ ]:

```
train_datagen = ImageDataGenerator (rescale = 1./255, shear_range=
0.2,zoom_range= 0.2, horizontal_flip = True)
```

In [ ]:

```
test_datagen =ImageDataGenerator (rescale = 1)
```

In [ ]:

```
x_train =
train_datagen.flow_from_directory(r'C:\Users\maris_q3mm6nk\Desktop\FILES\da
ta_for_ibm\Fertilizers_Recommendation_ System_For_Disease_
Prediction\Dataset Plant Disease\fruit-dataset\fruit-
dataset\test',target_size = (128,128), batch_size = 32, class_mode =
'categorical')
x_test =
test_datagen.flow_from_directory(r'C:\Users\maris_q3mm6nk\Desktop\FILES\dat
a_for_ibm\Fertilizers_Recommendation_ System_For_Disease_
Prediction\Dataset Plant Disease\fruit-dataset\fruit-
dataset\train',target_size = (128,128), batch_size = 32, class_mode =
'categorical')
```

```
Found 1686 images belonging to 6 classes.
Found 5384 images belonging to 6 classes.
```

In [ ]:

```
x_train =
train_datagen.flow_from_directory(r'C:\Users\maris_q3mm6nk\Desktop\FILES\da
ta_for_ibm\Fertilizers_Recommendation_ System_For_Disease_
Prediction\Dataset Plant Disease\Veg-dataset\Veg-
dataset\test_set',target_size = (128,128), batch_size = 32, class_mode =
'categorical')
x_test =
test_datagen.flow_from_directory(r'C:\Users\maris_q3mm6nk\Desktop\FILES\dat
a_for_ibm\Fertilizers_Recommendation_ System_For_Disease_
Prediction\Dataset Plant Disease\Veg-dataset\Veg-
dataset\test_set',target_size = (128,128), batch_size = 32, class_mode =
'categorical')
```

```
Found 3416 images belonging to 9 classes.
Found 3416 images belonging to 9 classes.
```

In [ ]: